

## 10149000 SIXTH WATER CREEK ABOVE SYAR TUNNEL, NEAR SPRINGVILLE, UT

LOCATION.--Lat 40°07'05", long 111°18'50", in NE<sup>1/4</sup>NE<sup>1/4</sup>SE<sup>1/4</sup> sec. 13, T. 8 S., R. 5 E., Utah County, Hydrologic Unit 16020202, on left bank 400 ft upstream from Syar Tunnel.

DRAINAGE AREA.--15 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow includes water diverted from Strawberry Reservoir (capacity, 1,106,500 acre-ft) since June 30, 1973, in Colorado River basin via Strawberry tunnel for irrigation in vicinity of Spanish Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft<sup>3</sup>/s, Sep 13, 2001, gage height, 5.27 ft; minimum, 3.0 ft<sup>3</sup>/s, Mar 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120 ft<sup>3</sup>/s, Sep 13, gage height, 5.27 ft; minimum daily discharge, 3.2 ft<sup>3</sup>/s, Dec 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.7	e5.2	e3.9	e4.1	4.0	5.1	7.8	40	47	38	35
2	5.3	5.5	e5.2	e3.9	e4.2	5.6	5.5	e7.8	40	47	38	35
3	5.0	e5.4	e5.2	e4.0	e4.3	4.0	5.2	7.8	40	48	39	36
4	5.0	e5.2	e5.3	e4.0	e4.4	5.8	5.0	7.7	40	46	37	35
5	4.9	e5.0	e5.4	e3.9	e4.3	4.0	5.2	7.5	41	46	37	35
6	5.0	e5.2	e5.5	e4.1	e4.2	4.4	5.5	7.4	41	45	36	34
7	4.9	e5.0	e5.6	e4.2	e4.1	4.8	5.7	15	42	44	36	34
8	4.9	e4.7	e5.7	e4.1	e4.0	4.9	5.6	e36	42	44	36	33
9	5.0	e4.8	e5.4	e4.2	e4.0	4.9	5.8	e36	41	43	36	34
10	6.1	e4.9	e5.1	e4.3	e4.0	5.2	5.4	e36	41	42	36	33
11	5.9	e4.8	e4.6	e4.5	e4.1	4.8	5.7	36	42	42	36	33
12	5.6	e4.7	e4.3	e4.4	e4.2	4.8	5.5	e36	42	41	35	33
13	5.4	e4.9	e4.3	e4.6	e4.2	4.6	6.8	36	42	41	35	38
14	5.3	e4.8	e4.3	e4.7	e4.0	4.3	5.1	e36	42	42	35	37
15	5.3	e4.7	e4.5	e4.6	e3.9	5.5	5.0	e37	43	41	35	36
16	5.2	e4.9	e4.6	e4.3	e4.0	4.3	5.4	37	43	40	35	37
17	5.2	e4.8	e4.3	e4.2	e4.2	4.0	5.5	37	43	40	35	37
18	5.2	e4.7	e3.7	e4.1	4.3	3.9	6.5	37	44	39	35	38
19	5.2	e4.8	e3.2	e4.1	4.6	4.2	5.9	37	45	39	34	36
20	5.1	e5.0	e3.3	e4.2	4.3	4.7	6.4	37	45	39	35	34
21	5.8	e5.1	e3.4	e4.5	4.3	5.3	6.8	37	45	39	35	37
22	5.4	e5.2	e3.5	e4.6	5.0	5.7	6.5	37	46	39	35	37
23	5.4	e5.3	e3.6	e4.6	4.6	5.7	6.3	e39	47	38	37	36
24	5.2	e5.4	e3.6	e4.5	4.2	5.4	6.4	e40	48	38	36	36
25	5.2	e5.6	e3.7	e4.7	3.9	5.4	6.6	e40	47	38	35	36
26	5.1	e6.0	e4.1	e4.5	5.9	5.2	7.0	41	48	38	35	36
27	5.2	e6.0	e3.9	e4.6	3.9	4.8	e7.2	41	47	38	34	35
28	5.4	e5.8	e3.7	e4.6	4.2	4.7	e7.4	41	47	37	34	35
29	5.2	e5.6	e3.8	e4.5	---	5.0	e7.7	41	47	37	34	35
30	5.7	e5.4	e3.9	e4.4	---	4.5	e7.8	41	47	37	34	35
31	6.3	---	e3.9	e4.2	---	4.6	---	40	---	37	35	---
TOTAL	170.4	154.9	135.8	134.0	119.4	149.0	181.5	973.0	1308	1272	1103	1061
MEAN	5.50	5.16	4.38	4.32	4.26	4.81	6.05	31.4	43.6	41.0	35.6	35.4
MAX	11	6.0	5.7	4.7	5.9	5.8	7.8	41	48	48	39	38
MIN	4.9	4.7	3.2	3.9	3.9	3.9	5.0	7.4	40	37	34	33
AC-FT	338	307	269	266	237	296	360	1930	2590	2520	2190	2100

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	7.15	13.6	12.2	11.1	11.2	12.7	22.4	41.5	43.3	39.5	36.4	35.7
MAX	8.81	30.1	27.2	23.9	24.4	27.2	38.7	54.0	47.7	41.9	40.6	39.5
(WY)	2000	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	5.50	5.16	4.38	4.32	4.26	4.81	6.05	31.4	38.6	35.7	32.8	32.2
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1999 - 2001
ANNUAL TOTAL	7089.6	6762.0	
ANNUAL MEAN	19.4	18.5	19.1
HIGHEST ANNUAL MEAN			19.7
LOWEST ANNUAL MEAN			18.5
HIGHEST DAILY MEAN	42	Apr 23	75
LOWEST DAILY MEAN	3.2	Dec 19	3.2
ANNUAL SEVEN-DAY MINIMUM	3.5	Dec 18	3.5
ANNUAL RUNOFF (AC-FT)	14060	13410	13860
10 PERCENT EXCEEDS	39	41	43
50 PERCENT EXCEEDS	8.4	5.7	29
90 PERCENT EXCEEDS	4.7	4.1	4.7

e Estimated